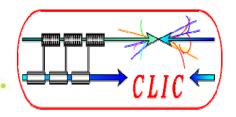


Goals of BDS WG

Rogelio Tomas (CERN), Andrei Seryi (SLAC) October 15, 2008 CLIC 08 Workshop

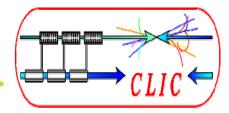


Goals (very briefly)



- Overview the status of design
- Discuss what subsystems represent specific challenges and may need more attention for design, optimization, or experimental verification
 - The initial list of system that may require more attention:
 - Extraction system
 - Physics instrumentation (polarimetry, E-spectrometry)
 - Beam dump system
 - Crab cavity system

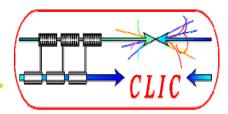




- Discuss and the collimation system design
 - (as the one taking biggest part of BDS length)
 - Discuss design and criteria
 - beam damage criteria
 - order of collimation (E, then beta)
 - etc

Discuss new effects and possible alternative approaches to collimation

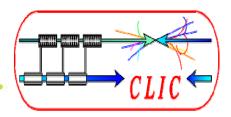




- Discuss MDI related aspects of the design
 - Final Doublet
 - Permanent magnet
 - Superconducting
 - Masks
 - Backgrounds
- Discuss the BDS and MDI design versus the stability criteria
 - In particular, discuss doubling of L* (to ~8m) to ease achievement of FD stability requirements



Goals (continued)



• Discuss what experimental tests are needed and what can be done

– at ATF2

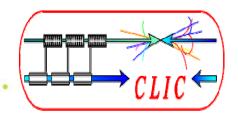
- smaller beta for CLIC-like FF or even for doubled L*?
- SC and PM FDs

– at proposed FACET

collimation related beam damage studies

at other facilities





- Directions of further design efforts
- Ideas for possible design optimization
- Ideas on experimental tests needed
- Better plans of work with Detector colleagues
- Better picture of who will do what and when
- Possibly, new collaborators
- Enhanced CLIC-ILC collaboration